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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,516	02/10/2004	V.S. Subrahmanian	MR2833-31	8693
	7590 11/29/2007 KLEIN & LEE	EXAMINER		
3458 ELLICOT	TT CENTER DRIVE-SU	LE, JOHN H		
ELLICOTT CI	11, MD 21043		ART UNIT	PAPER NUMBER
			2863	
			MAIL DATE	DELIVERY MODE
			11/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/774,516	SUBRAHMANIAN	SUBRAHMANIAN ET AL.			
		Examiner	Art Unit				
		John H. Le	2863				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence a	ddress			
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vire to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may vill apply and will expire SIX (6) Micause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	•			
Status	,	•	•				
1)	Responsive to communication(s) filed on						
2a)□		action is non-final.					
3)	Since this application is in condition for allowar		atters, prosecution as to the	e merits is			
/—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims		·				
4)⊠	Claim(s) <u>1-22</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	☐ Claim(s) 1-22 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers		·				
9)	The specification is objected to by the Examine	· f.	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correcti	on is required if the drawin	g(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attach	ed Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau		•				
* S	see the attached detailed Office action for a list of	of the certified copies no	t received.				
Attachmen		, m	O (DTO 440)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)							
Paper No(s)/Mail Date <u>01/03/2005</u> . 6) Other:							

10/774,516 Art Unit: 2863

DETAILED ACTION

Claim Objections

- 1. Claim 1 is objected to because of the following informalities:
 - Claim 1, line 23, ""simpler-than" should change to --simpler-than--.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-22 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claims fail to include transformation from one physical state to another. Although, the claims appear useful and concrete, there does not appear to be tangible result claimed.

Claim 1 appears to be directed to the computing itself rather than a practical application of the computing in the real world. The compact set of the optimal fringes is computed, but there is no final step of using the computed compact set of the optimal fringes in any way or making the compact set of the optimal fringes available for use in a meaningful way (e.g., in some instances, if it was conveyed to someone or something

or stored for retrieval, that would establish a tangible result). Thus, the claim appears to lack a tangible result.

Regarding claim 22, the system to be able to realize any functionality, at least one element must necessarily include hardware. The claim does not show any hardware for performing. Therefore, the software itself would make it non-statutory. Thus, the claim appears to lack a tangible result.

Claims 2-21 are rejected under 35 U.S.C. 101 base on dependency.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is 571 272 2275. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571 272 2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

November 25, 2007